APPARATUS AND METHOD FOR IN-SITU ADJUSTMENT OF LIGHT TRANSMISSION IN A PHOTOLITHOGRAPHY PROCESS

ABSTRACT OF THE DISCLOSURE

adjustable, in-situ photolithography process taught, where incident exposure light is passed through two polarizers; the first polarizer capable of altering polarization direction, during exposure, relative to the polarization direction of the second polarizer, in order to enhance the contrast of a patterned image projected on a The second polarizer in the optical 10 semiconductor wafer. train is a photo mask transparent substrate impregnated with aligned in fixed, that are colloidal crystals predetermined direction by magnetic field. The photo mask may also contain a silicon compound for phase shifting the incident exposure light to further enhance the 15 contrast.